01391540 SADDLE RIVER AT FELICIAN COLLEGE FOOTBRIDGE, AT LODI, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°52′04″, long 74°05′41″ referenced to North American Datum of 1983, Lodi Borough, Bergen County, NJ, Hydrologic Unit 02030103, at bridge at Felician College in Lodi, 0.8 mi east of Garfield, and 1.2 mi upstream of mouth.

DRAINAGE AREA.--59.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water year 2008.

GAGE.--Reference point only.

REMARKS.--Flow includes some sewage effluent, and is affected by ground-water and surface water diversions.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Discharge, in ft³/s
Feb 20, 2008	189
Apr 1, 2008	160
Apr 28, 2008	168
Jun 26, 2008	55.0
Jul 17, 2008	30.9
Jul 24, 2008	4.07
Aug 5, 2008	35.8
Aug 21, 2008	42.3
Sep 8, 2008	141
Sep 19, 2008	56.1

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 2008 to September 2008.

PERIOD OF DAILY RECORD.--July and August 2008.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+or-). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - SPECIFIC CONDUCTANCE: Jul 9-14 and Aug 16-21; DISSOLVED OXYGEN: Aug 13-21.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 2

[Remark codes: E, estimated.]

Date	Time	Instantaneous discharge, ft3/s (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 180degC wat flt mg/L (70300)
Feb													
20...	1150	189	4.2	761	12.6	98	7.6	748	3.0	4.5	100	149	398
Apr													
01...	1010	160	4.7	759	10.1	90	7.5	802	16.5	10.2	119	154	444
28...	1350	168	15	757	8.7	83	7.6	748	12.5	12.9	116	140	438
Jun													
26...	1025	55	3.6	758	6.9	78	7.6	858	23.0	21.0	136	155	495
Jul													
17...	1200	31	2.0	764	8.0	94	7.7	893	33.0	23.7	132	162	488
24...	1210	407	29	758	7.1	82	7.3	260	29.5	22.6	44	39.7	167
Aug													
05...	1020	36	3.5	760	7.7	87	7.7	805	28.0	21.8	126	147	470
21...	1240	42	2.2	768	9.7	108	7.9	890	26.0	20.6	138	161	526
Sep													
08...	1220	141	7.9	765	7.9	89	7.4	510	27.5	21.0	84	84.9	278
19...	0950	56	2.1	773	8.9	91	7.7	810	19.0	16.5	129	142	500

01391540 SADDLE RIVER AT FELICIAN COLLEGE FOOTBRIDGE, AT LODI, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 2
[Remark codes: E, estimated.]

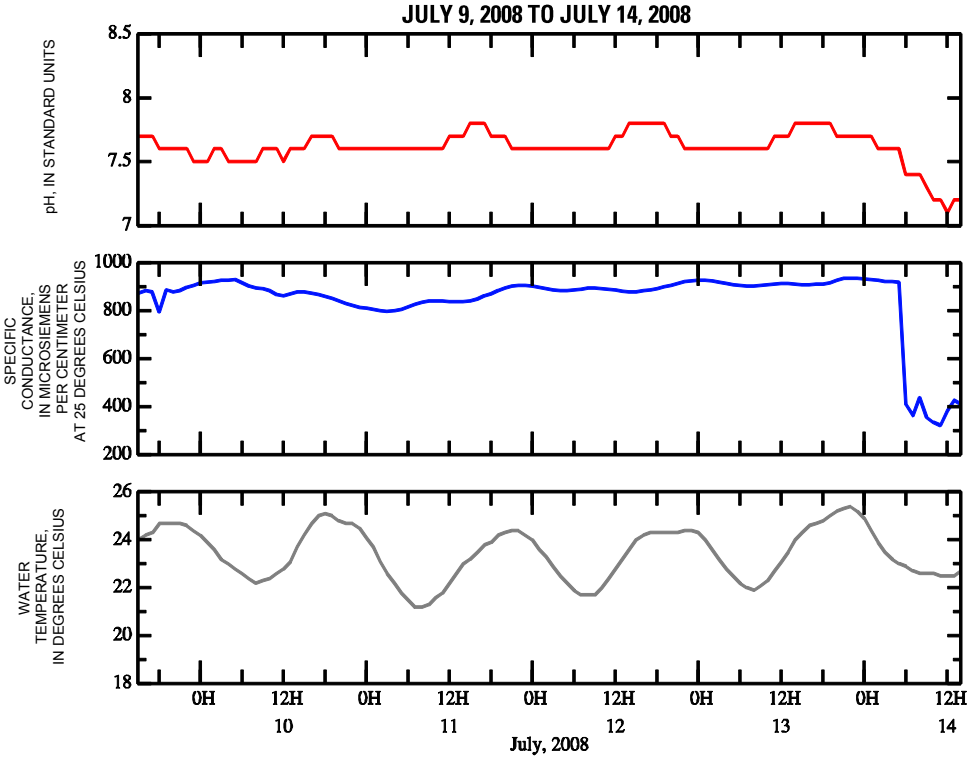
Date	Residue total non-filter-able, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Total nitro-gen, water, unfltrd mg/L (00600)	Phos-phorus, water, fltrd, mg/L as P (00666)	Phos-phorus, water, unfltrd mg/L as P (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, µg/L (70953)	Pheo-phytin a, phyto-plank-ton, µg/L (62360)	Boron, water, unfltrd recover-able, µg/L (01022)	Iron, water, unfltrd recover-able, µg/L (01045)
Feb												
20...	6	.53	.055	2.86	3.4	.20	.26	4.7	E2.5	E1.3	47	460
Apr												
01...	4	.64	.087	3.51	4.1	.28	.34	4.7	11.2	8.4	67	408
28...	21	1.2	.194	3.55	4.8	.39	.59	8.6	33.4	29.7	76	992
Jun												
26...	2	.65	.120	5.06	5.7	.79	.85	5.0	.7	1.1	82	194
Jul												
17...	2	.60	.074	5.88	6.5	.98	1.03	4.5	1.4	1.8	121	163
24...	49	.86	.066	1.15	2.0	.19	.35	9.5	11.4	11.3	37	1,570
Aug												
05...	2	.53	.066	4.49	5.0	.78	.80	4.6	2.4	2.7	100	199
21...	2	.55	.048	5.98	6.5	1.03	1.06	4.6	1.7	2.0	121	142
Sep												
08...	9	.78	.078	2.21	3.0	.24	.31	7.1	5.8	3.9	63	403
19...	7	.55	.053	6.25	6.8	.74	.77	3.9	1.1	1.2	92	139

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
[Remark codes: <, less than.]

Date	Time	Phos-phorus, bed sedimnt total, mg/kg as P (00668)	Total carbon, bed sed <2 mm, wsv nat field g/kg (49272)	Inorg. carbon, bed sed <2 mm, wsv nat field g/kg (49270)	Organic carbon, bed sed <2 mm, wsv nat field g/kg (49271)
Sep					
23...	1330	250	3.5	<.2	3.3
25...	0940	260	3.5	<.2	3.3

01391540 SADDLE RIVER AT FELICIAN COLLEGE FOOTBRIDGE, AT LODI, NJ—Continued

HOURLY WATER-QUALITY-MONITOR VALUES
JULY 9, 2008 TO JULY 14, 2008



01391540 SADDLE RIVER AT FELICIAN COLLEGE FOOTBRIDGE, AT LODI, NJ—Continued

HOURLY WATER-QUALITY-MONITOR VALUES
AUGUST 13, 2008 TO AUGUST 21, 2008